

## Reference 7

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11134648 A

(43) Date of publication of application: 21.05.99

(51) Int Cl

G11B 7/00  
G11B 23/38

(21) Application number: 08288328

(71) Applicant: SONY CORP

(22) Date of filing: 30.10.87

(72) Inventor: KOBAYASHI SEIJI

(54) OPTICAL INFORMATION RECORDER AND  
OPTICAL INFORMATION RECORDING METHODthe exposure position to the master plate 2 by the  
orthogonal coordinate.

(57) Abstract

COPYRIGHT: (C)1999 JPO

**PROBLEM TO BE SOLVED:** To easily make visible characters and images recordable by transforming position information by a polar coordinate based on the rotational center of an optical information recording medium into position information by an orthogonal coordinate and changing the light quantity of a laser beam according to picture data by making the position information by the orthogonal coordinate addresses.

**SOLUTION:** A spindle motor 4 rotatingly drives a master plate 2 to output an FG signal FG whose signal level is raised every time the disk 2 revolves by a prescribed angle to a spindle servo circuit 5 and an orthogonal coordinate position generating circuit 6 from an FG signal generator held at the bottom part of the motor. The circuit 6 generates position information expressing an exposure position by the polar coordinate based on the rotational center of the master plate 2 on the basis of the FG signal FG. Moreover, the circuit 6 transforms the position information by the polar coordinate into the position information by the orthogonal coordinate and generates position information X and Y expressing

